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REVISIONS/REPORTS

On the Prevalence of Rape in the United States

Allan Griswold Johnson

Most who study the status of American women are aware of the prominent role sexual violence plays in the oppression of women—of the devastating effects it has on individual women who are victimized by it as well as the broader ways in which it intimidates all women. Women are encouraged to feel guilty for their own victimization, authorities are reluctant to believe women who report being raped, and, even if a woman is believed, she is compelled to endure humiliating experiences that at worst constitute additional violations of her self. Not only do the culture and social structures of patriarchy generate violence against women; they also interfere with efforts to see that violence clearly for what it is.¹

1. See, e.g., Susan Brownmiller, *Against Our Will* (New York: Bantam Books, 1976); Andrea Medea and Kathleen Thompson, *Against Rape* (New York: Farrar, Straus & Giroux, 1974); Ann Wolbert Burgess and Lynda Lytle Homstrom, *Rape: Victims of Crisis* (Bowie, Md.: Robert J. Brady Co., 1974), chap. 8; Elaine Hilberman, *The Rape Victim* (New York: Basic Books, 1976); Noreen Connell and Cassandra Wilsen, eds., *Rape: The First Sourcebook for Women* (New York: New American Library, 1974); Duncan Chappell, "Forcible Rape and the Criminal Justice System: Surveying Present Practices and Projecting Future Trends," in *Sexual Assault*, ed. Marcia J. Walker and Stanley L. Brodsky (Lexington, Mass.: D. C. Heath & Co., 1976); Ann Wolbert Burgess and Lynda Lytle Homstrom, "Rape: Its Effect on Task Performance at Varying Stages in the Life Cycle," in *ibid.*; Camille E. LeGrand, "Rape and Rape Law: Sexism in Society and Law," in *Forcible Rape: The Crime, the Victim, and the Offender*, ed. Duncan Chappell, Robley Griss, and Gilbert Geiss (New York: Columbia University Press, 1977); Carol Bohmer, "Judicial Attitudes toward Rape Vic-

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At the heart of feminist analysis of rape lie both the horror of the individual assault and the prevalence of such violence across the population of all females. A feminist interpretation does not attribute violence to the aberrant behavior of a lunatic fringe of normal male society; rather, it locates the etiology of sexual violence in the everyday fabric of relations between men and women in patriarchal society.²

Many who have engaged in the struggle against sexual violence believe such violence is widespread; I think a more common perception in the general population is that, while the individual rape is a horrible experience for the victim, such events are statistically rare and therefore not reflective of everyday life in American society. For example, in a recent issue of *Signs*, Edward Shorter asserted—without discussion—that “the average woman’s chances of actually being raped in her lifetime are still minimal.”³ The evidence I present below will demonstrate empirically that such a perception is inaccurate. If only to sharpen the public consciousness of the uses of violence in oppression, it is important to document and analyze the reality of sexual violence, its destructive consequences for women individually and collectively, the relationship between sexual violence and the normal functioning of patriarchal society, and the prevalence of violence against women.

That sexual violence is a widespread phenomenon permeating American society is in part a statistical assertion for which the feminist interpretation of sexual violence can draw additional confirmation from systemically gathered data on victimization. Historically, however, the systematic documentation of violence against women has been hard to come by. Statistics on violence against young girls, for example, are either not recorded or, if recorded, not published, as is the case of “statutory rape” in FBI statistics. State legislatures help mask domestic rape by excluding the rape of women by their husbands from criminal statutes. Key figures in the gathering of data on violence—police officers, prosecutors—often behave in ways that discourage women from making their victimization known.

A clear view of the numerical aspect of rape has thus been obstructed by cultural beliefs and institutional arrangements. In response to this problem, this paper will use recent high-quality survey

tims,” in *ibid.*; Ann Wolbert Burgess and Lynda Lytle Homstrom, “Rape Trauma Syndrome,” in *ibid.*; Sandra Sutherland and Donald J. Scherl, “Crisis Intervention with Victims of Rape,” in *ibid.*; Diana E. H. Russell, *The Politics of Rape: The Victim’s Perspective* (New York: Stein & Day, 1975).

2. See, e.g., Brownmiller, chaps. 1, 2, 11, 12; Andrea Dworkin, *Woman Hating* (New York: E. P. Dutton, 1974); Kate Millett, *Sexual Politics* (Garden City, N.Y.: Doubleday & Co., 1970).

3. Edward Shorter, “On Writing the History of Rape,” *Signs: Journal of Women in Culture and Society* 3, no. 2 (Winter 1977): 471–82. See also Heidi I. Hartmann and Ellen Ross, “Comment on ‘On Writing the History of Rape,’” *Signs: Journal of Women in Culture and Society* 3, no. 4 (Summer 1978): 931–35.

data to construct estimates of the probability that a woman will be the victim of sexual violence during her lifetime. While existing data make it possible to construct estimates both for large metropolitan areas and for the nation as a whole, as well as for whites and nonwhites, *these estimates cannot be used to make valid comparisons among population groups*, for reasons which I will make clear below. In making the estimates, I have tried to rely on as few assumptions as possible and to underestimate the risks rather than overestimate them. I have also constructed the estimates, using well-established demographic techniques.

About Rape Statistics

If we want to estimate numerically the chances of being raped, we discover that measuring the incidence of rape depends on reports by victims; and rape tends to be seriously underreported. Estimates of the percentage of rapes that are reported range from only 5 percent to a high of 50 percent.⁴ This means that as many as 90 percent of actual rapes may be unreported. Not only does this make it difficult to estimate single-year incidence, but it also makes the establishment of trends over time impossible.⁵

One response to this problem is to construct estimates that represent a minimum probability of being raped. While the location of the ceiling will always be in doubt, we can at least be sure of the floor.

A second problem concerns the form of the statements we want to make. Official statistics tell us little that can be translated into meaningful statements about danger. In 1976, for example, 56,730 attempted or completed rapes were reported to police in the United States.⁶ Such numbers are not very useful; nor are rates. To say that the rape rate was fifty-two per 100,000 females in 1976 does not vividly portray the magnitude of danger. From demographic techniques we can derive numerical estimates that are more meaningful. For example, if we wanted to know about mortality levels in the United States, we could examine data that show the death rates for each age of life: There is, for instance, a 1.6 percent chance of dying before age one, a 0.3 percent chance of dying between the ages of one and five, a 0.2 percent chance of dying between the ages of five and ten. It is difficult, however, to attach subjective meaning to such probabilities and in turn evaluate their importance.

4. Brownmiller, p. 190; Menachem Amir, *Patterns of Forcible Rape* (Chicago: University of Chicago Press, 1971), pp. 27–28. For a recent analysis of data which relate victim reporting behavior to characteristics of the crime, the victim, and the victim-criminal relationship, see Wesley G. Skogan, "Citizen Reporting of Crime: Some National Panel Data," *Criminology*, vol. 13, no. 4 (February 1976).

5. It is for this reason that most of Shorter's statistical analysis is specious.

6. Federal Bureau of Investigation, *Uniform Crime Reports for the United States* (Washington, D.C.: Government Printing Office, 1976).

One demographic approach to this problem is to summarize age-specific death rates in a single indicator, expectation of life. Life expectancy at birth uses age-specific death rates to calculate the average number of years that newborn children could expect to live if those death rates remained constant throughout their lifetimes.⁷ Similarly, rather than construct estimates of single-age probabilities of being raped, it would be more meaningful to estimate cumulative lifelong probabilities.

Such an "average" assumes that all women are equally likely to be raped, a kind of assumption inherent in all averages. Rather than interpreting these estimates as true probabilities for individuals, it is more accurate to think of them as describing the aggregate incidence of rape for all women. This is what is accomplished by the use of life expectancy to express levels of mortality.

The Estimates

The estimates I will construct below are analogous to life expectancy: If females who are now twelve years old live out their lives subject to the rape probabilities currently associated with each age of life, what would be the overall probability of experiencing rape sometime during their lifetimes? To construct such a measure, we need age-specific rates of victimization.

In 1972, the Law Enforcement Assistance Administration, in conjunction with the U.S. Census Bureau, surveyed 10,000 households in each of twenty-six major U.S. cities. In this national crime panel, all members over eleven years old of selected households were asked about experiences of crime victimization during the preceding twelve months. From data gathered on 250,000 people in thirteen of these cities, rates of completed rape were constructed by age groups.⁸

Although the survey response rates of 95 percent were unusually high, we still have the problem of failure to report rapes to survey interviewers. The total rate for the thirteen cities was only slightly higher than the FBI's urban rates for the same year, suggesting that the survey was only somewhat more successful in drawing out reports than are the police.⁹ Since I am trying to construct minimum estimates of lifelong probabilities, any final estimates will vary only upward, depending on

7. See, e.g., the description of life expectancy and a discussion of life tables in John R. Weeks, *Population* (Belmont, Calif.: Wadsworth Publishing Co., 1978), p. 114.

8. National Center for Health Statistics, *Vital Statistics of the United States*, 1975, vol. 2, sec. 5, "Life Tables" (Rockville, Md.: Public Health Service, 1977).

9. The *Uniform Crime Reports* for 1972 show a reported rate of completed rape of sixty-eight per 100,000 females; the thirteen-city reported rate was seventy-seven per 100,000.

assumptions about nonreporting behavior. The rates reported from the LEAA/census survey do not reflect the experience of victims under twelve years old, a group that is certainly not immune to sexual abuse and assault. However, the effect of this exclusion on the estimates is to make them more conservative. The rates also are limited to the experience of thirteen large cities.

Column 1 of table 1 shows age-specific annual rates of rape victimization per female twelve years old and older. The reported victimization probabilities are largest at the younger ages and decline sharply with age.¹⁰ To construct the estimate, we consider a group of 100,000 twelve-year-old females moving through the life cycle. As they age, two things occur. First, some will leave the group through death; second, as the group moves through each age category, its members are subjected to the rape probabilities associated with that age (just as they are subjected to the probabilities of dying associated with each age). Column 2 of table 1 shows the average number of females alive at each age during the group's passage through the age interval. Thus, between the ages of twelve and fifteen, an average of 97,800 females (of the original 100,000) are alive and exposed to the risk of rape at each single age in the interval.

Table 1

Calculation of Lifetime Probability of Being Raped for Females Living in Thirteen U.S. Cities*

Age (yr)	Reported Rate† (1)	Average Group Exposed‡ (2)	Rapes/ Year§ (3)	Rapes during Age Interval|| (4)	Cumulative#
12-15 . . . .	.00179	97,800	175	700	4,056
16-19 . . . .	.00185	97,500	180	722	3,356
20-24 . . . .	.00116	96,900	112	562	2,634
25-34 . . . .	.00115	95,900	110	1,103	2,072
35-49 . . . .	.00036	92,800	33	501	969
50-64 . . . .	.00018	82,400	15	225	468
65-85 . . . .	.00021	57,900	12	243	243
Total . . . .	.00077	...	...	...	...

SOURCE.—Age-specific rates calculated by the author from data reported in M. J. Hindelang and B. J. Davis, "Forcible Rape in the United States: A Statistical Profile," in *Forcible Rape: The Crime, the Victim, and the Offender*, ed. Duncan Chapell et al. (New York: Columbia University Press, 1977), table 4.1.

*The cities are Chicago, Detroit, Los Angeles, New York, Philadelphia, Atlanta, Baltimore, Cleveland, Dallas, Denver, Newark, Portland, and St. Louis.

†Rates are annual for completed rapes per female in each age group. Statutory rapes are excluded.

‡Given current mortality conditions, col. 2 shows the average number of females out of 100,000 born expected to be alive each year during the cohort's passage through the age interval.

§Rapes per year are calculated by multiplying the rates in col. 1 times the population in col. 2.

||Rapes during the age interval are calculated by multiplying rapes per year times the number of years in the age interval.

#Each number in this column represents the number of rapes occurring in the group from the beginning of the age interval onward.

10. This age pattern also appears in the earlier data of Amir.

Column 3 shows the number of rapes that would be produced during the group's passage through each age in the age interval (found by multiplying the rate in col. 1 times the size of the group in col. 2).¹¹ Column 4 then shows the cumulation of these yearly experiences over the number of years the group spends in the age interval. Thus, the first age interval represents four years of experience, or $4(175) = 700$ completed rapes.

If we do this calculation for each age interval and then sum the resulting figures in column 4, the result is the total number of rapes this group of twelve-year-olds could expect to experience over its lifetime, taking into account losses through mortality and age differences in the likelihood of being raped. We would, therefore, expect a total of 4,056 rapes in a group of 100,000 females over the course of the group's lifetime. The ratio of rapes to females is $4,056$ to $100,000 = 0.04056$, or 4.1 percent.

This indicates that, as a *minimum*, if conditions do not improve, twelve-year-olds living out their lives in these metropolitan areas will have a 4.1 percent chance of being raped sometime during their lives. Once again, however, *this assumes that reported rapes constitute all rapes that occur*.

If reported rapes constitute at most one-half of all rapes—an assumption that would satisfy even the most conservative authorities—the estimated completed rape probability is 8 percent. If reported rapes constitute only one in five of all rapes, the estimated probability of completed rape increases to 20 percent.

What could be wrong with such estimates? Could sampling error account for their magnitude? Probably not: A sample of 250,000 people is unusually large, and the rates in all age groups are based on at least 300 reported rapes. The conclusion seems inescapable that urban environments pose considerable lifelong risks of being raped for women. However, in the absence of data on nonmetropolitan areas, we cannot conclude that less urban areas pose lower objective risk levels for women.¹²

The thirteen-city data allow us to compute separate estimates for whites and nonwhites. If we apply the methodology in table 1 to the race-specific rates in table 2, the resulting minimal lifelong probability for whites is 3.2 percent, while that for nonwhites is 6.4 percent.

11. Technically, traditional life tables would use the probability of being raped between two ages; what is used here is the "central rate," or the percentage of women in each age group who experience rape in a given year.

12. Some readers may miss a consideration of "false reporting" in evaluating these estimates. At this point in our understanding of sexual violence, the false reporting hypothesis for the explanation of reported levels of assault has no credibility and therefore is not considered in the text. See Michael J. Hindelang and Bruce J. Davis, "Forcible Rape in the United States: A Statistical Profile," in Chappell et al., eds., p. 97; Brownmiller, p. 410 and chap. 11.

Table 2

Reported Completed Rapes per 100,000 Females for
Thirteen Major U.S. Cities, by Race and by Age

Age (yr)	Whites	Nonwhites	Total
12-15	91	308	179
16-19	111	316	185
20-24	138	74	116
25-34	124	100	115
35-49	30	47	36
50-64	7	54	18
65-85	3	112	21
Total	57	124	77

SOURCE.—See table 1.

NOTE.—Data do not include statutory rapes.

It is difficult to move from data on thirteen major cities to estimates for the national population, particularly because of high concentrations of nonwhites in the cities. The FBI reports that rates of completed rape are roughly twice as high in major metropolitan areas as they are in the national population.¹³ If this holds for the survey data, then the thirteen-city estimate of 4.1 percent yields a national estimate of 2 percent. Again, this estimate rests on the assumption that all rapes are reported.

Estimates of Completed or Attempted Rape

Since attempted rape is also a severely traumatic event with many of the same effects of a completed rape, I will construct estimates of lifelong probabilities of suffering a completed *or* an attempted rape—a combined category that many statutes now call sexual assault.

Subsequent to the thirteen-city study of crime victimization in the United States, the LEAA and Bureau of the Census have regularly gathered victimization data on a national basis. Table 3 shows age-specific rates of sexual assault by race for the thirteen cities and for the nation as a whole.

If we apply the life-table methodology used above to the age-specific rates in table 3, we find the following: In the thirteen cities, the minimum lifetime probabilities are 16 percent for whites, 18 percent for nonwhites, and 16 percent for both races combined. There is little difference by race because attempted rapes are reported with far greater frequency than completed rapes; and while nonwhites appear to be considerably more likely than whites to report completed rapes, the rates for

13. Federal Bureau of Investigation.

Table 3

Reported Rates of Completed or Attempted Rapes per 100,000 Females, by Age,
for Thirteen-City Sample and for National Sample, U.S., 1972/1973/1974

Age (yr)	Thirteen-City			National Total
	Whites	Nonwhites	Total	
12-15	466	760	585	150
16-19	856	1,148	961	480
20-24	772	501	682	510
25-34	407	310	374	240
35-49	130	130	130	40
50-64	63	144	82	40
65-85	24	112	39	20
Total	286	385	315	180

SOURCES.—For 13-city data, see table 1. For national data, see Law Enforcement Assistance Administration, U.S. Department of Justice, *Criminal Victimization in the United States: A Comparison of 1973 and 1974 Findings* (Washington, D.C.: Government Printing Office, 1976), table 4.

reports of attempted rape are more equal than those for completed rapes.

On a national level, the estimated minimum lifelong probability of suffering a sexual assault is 8 percent. It is possible to derive estimates by race in a crude way by noticing that, in the national data, white aggregate rates are 92 percent of the national rates, while nonwhite rates are 175 percent of national rates. Assuming that there are no important racial differences in the age patterns of rape victimization, the resulting national estimates are 8 percent for whites and 15 percent for nonwhites.

Again, let me stress the importance of being very cautious in making comparisons among the various population groups without taking into account the very real possibility that there are important differences in reporting behavior. Survey data, for example, indicate that nonwhites are more likely to report rapes to the police than are whites.¹⁴ Such comparisons are, therefore, at best highly speculative.

The Problem of Reporting Behavior

All of the "minimum" estimates generated above assume that assaults reported to survey interviewers constitute 100 percent of rapes and attempted rapes that occur. There is no question that such an assumption is false. As mentioned earlier, estimates of the percentage of all rapes in police reports range from 5 percent to roughly 50 percent. The national crime panel data show that roughly one-half of re-

14. Hindelang and Davis, p. 97; Law Enforcement Assistance Administration, U.S. Department of Justice, *Criminal Victimization in the United States: A Comparison of 1973 and 1974 Findings* (Washington, D.C.: Government Printing Office, 1976).

spondents who report completed or attempted rapes in interviews indicate that they reported the rapes to the police as well.¹⁵ This must be viewed as an upper limit. Within this context, it is reasonable to accept Susan Brownmiller’s “conservative,” “unemotional rock-bottom” working estimate that “only one in five rape incidents are actually reported.”¹⁶

What happens to the minimum lifelong probabilities under various assumptions about reporting behavior? While we have no way of knowing exact levels of reporting, we can identify the plausible *range* of possibilities and thereby identify the plausible range within which actual lifetime rape/attempted rape probabilities lie.

In table 4, the first column of figures summarizes the minimum lifetime probabilities. The top panel of the table shows probabilities for completed rapes in the thirteen cities, with separate figures for whites and nonwhites. The bottom panel shows both national and thirteen-city data for completed and attempted rapes combined.

Across the top of each panel are a series of percentages, ranging downward from 100 percent to 20 percent. These represent a series of assumptions about reporting behavior. Going across a given row, the

Table 4

Estimated Lifelong Rape Probabilities, by Population Group, by Completed Only vs. Completed and Attempted, and by the Percentage of Occurring Rapes Accounted for by Survey Reports, U.S. Females

Study Population	Reported Rapes as Percentage of All Rapes				
	100	50	40	30	20
Completed Rapes Only					
Thirteen-city:					
Whites .....	.03	.06	.08	.11	.16
Nonwhites .....	.06	.13	.16	.21	.32
Total .....	.04	.08	.10	.14	.20
Completed or Attempted Rapes					
Thirteen-city:					
Whites .....	.16	.31	.39	.52	.78
Nonwhites .....	.18	.35	.44	.59	.88
Total .....	.16	.32	.40	.54	.81
National:					
Whites* .....	.08	.16	.20	.26	.39
Nonwhites* .....	.15	.30	.38	.50	.75
Total .....	.08	.17	.21	.28	.42

SOURCES.—See tables 1 and 3 and text.
*Estimates by race for national sample not based on age-specific data; see text.

15. Law Enforcement Assistance Administration, table 19.
16. Brownmiller, p. 90.

estimate changes under various assumptions about reporting behavior. For example, in the first row of the top panel, the minimum probability for whites in the thirteen cities is .03. This figure, however, assumes 100 percent reporting by victims. If reported rapes constitute only 50 percent of all rapes (second column of figures), then the estimate must be doubled to .06. In a similar fashion, if only 20 percent of all completed rapes are reported, then the estimated lifetime probability for thirteen-city white women rises to .16, or 16 percent.

Table 4 makes it clear why comparisons among population subgroups call for considerable caution. For example, considering only completed rapes, if we assume that the reporting rate for both whites and nonwhites is 40 percent, then nonwhites have twice the chance of being raped that whites do (.16 vs. .08). However, if the actual reporting rate for nonwhites is 40 percent and the rate for whites is only 20 percent, then the corresponding probabilities are identical. Indeed, since the available evidence suggests that nonwhites are more likely than whites to report their assaults, it is entirely possible that the racial difference in vulnerability to rape is quite small; it is even possible that white females are *more* vulnerable than nonwhite females.

As speculative as this is, I raise it because we tend to assume that nonwhites are more likely to be victims of crime than are whites. Rape is no exception to this tendency. We have become so conditioned by the greater *recorded* incidence of crime among the poor and nonwhite that it is easy to lose sight of the important distinction between reports and actual incidence. The closeness of the white and nonwhite figures in table 4 should caution us to consider more seriously the possibility that recorded racial differences in rape are produced in part, if not completely, by racial differences in reporting behavior as well as by institutional racism in the public mechanisms through which the recording and reporting of crime are accomplished.

Conclusion

The bottom row of figures in table 4 confirms that American women live under a substantial risk of being victims of sexual violence. Nationally, a *conservative* estimate is that, under current conditions, 20–30 percent of girls now twelve years old will suffer a violent sexual attack during the remainder of their lives.

It is important to reiterate that these “lifetime” estimates actually begin at age twelve; by excluding the experience of young girls, the estimates become even more conservative, especially since assaults on children often have more traumatizing effects than those on adults. Second, sexual abuse within marriage has been excluded. Finally, the methodology used above required the assumption that all women live under equal risk of attack. This is probably a false assumption—but one

with little effect unless substantial proportions of women are raped more than once.

The numbers provide additional confirmation of the prevalence of sexual violence against women in American society and additional evidence that the reluctance of our society to pay serious attention to violence against women has little to do with objective incidence. In fact, the average American woman is just as likely to suffer a sexual attack as she is to be diagnosed as having cancer, or to experience a divorce.¹⁷ Yet, these events receive considerably more attention than does sexual assault.

That it is so difficult to document accurately the incidence of violence against women is itself an important substantive issue that requires attention. We need to expose the connection between the social conditions of patriarchy that generate sexual violence and the social structures that hide that violence from view and impede efforts to stop it. That married women and young girls live outside society's protection is clear when we search official statistics, for violence against them is not recorded even when it is reported. Sexual violence against girls and married women (when the offenders are their husbands) is officially invisible.

Sexual violence against women has typically been viewed in American society as a women's problem. There are growing efforts to train women to protect themselves, to avoid victimization, to heal themselves once attacked. Little attention has been directed at men, however. The estimates in this paper, by providing statistical confirmation that violence against women is in fact a common occurrence, provide a strong basis from which to insist that men be more broadly included in the formulation of sexual violence as a social problem. It is difficult to believe that such widespread violence is the responsibility of a small lunatic fringe of psychopathic men. That sexual violence is so pervasive supports the view that the locus of violence against women rests squarely in the middle of what our culture defines as "normal" interaction between men and women. The numbers reiterate a reality that American women have lived with for years: Sexual violence against women is part of the everyday fabric of American life.

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17. The American Cancer Society estimates that roughly 25 percent of Americans now living will eventually have cancer of some kind (American Cancer Society, *1978 Cancer Facts and Figures* [New York: American Cancer Society, 1979], p. 3). The Census Bureau estimates that, for women born between 1945 and 1948, the probability that they will experience the dissolution of a first marriage by divorce is 36 percent (U.S. Bureau of the Census, "Marriage, Divorce, Widowhood, and Remarriage by Family Characteristics: June 1975," *Current Population Reports*, Series P-20, no. 312 [Washington, D.C.: Government Printing Office, 1977]).